AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (withdrawn) Method of producing a delivery system for medical and/or cosmetic use comprising a carrier and at least one active ingredient characterized by following steps:

(i) preparing a liquid wherein at least one active ingredient is dissolved or dispersed

(ii) optionally sterilising the liquid

(iii) preparing and optionally sterilizing a dry xerogel or film carrier

(iv) applying microdroplets of the liquid according to steps (i) or, if applicable, (ii) to at least one surface area of a dry xerogel or film carrier obtained from step (iii)

(v) optionally repeating step (iv) at least one time, and

(vi) optionally repeating steps (i) to (v) with a liquid containing another active ingredient at least one time

(vii) vacuum-drying or freeze-drying the system obtained by above steps.

2. (withdrawn) Method of producing a delivery system for medical and/or cosmetic use comprising a carrier and at least one active ingredient according to claim 1, characterized by following steps:

(i) preparing a liquid wherein at least one active ingredient is dissolved or dispersed

(ii) optionally sterilising the liquid

(iii) preparing and optionally sterilizing a dry xerogel or film carrier

(iv) applying microdroplets of the liquid according to steps (i) or, if applicable, (ii) to at least one surface area of a dry xerogel or film carrier obtained from step (iii)

(v) optionally repeating step (iv) at least one time, and

(vi) optionally repeating steps (i) to (v) with a liquid containing another active

ingredient at least one time

(vii) vacuum-drying or freeze-drying the system obtained by above steps.

3. (withdrawn) Method of producing a delivery system for medical and/or cosmetic use comprising a carrier and at least one active ingredient according to claim 1 or 2 characterized by following steps: (i) preparing a liquid wherein at least one active ingredient is dissolved or dispersed; (ii) sterilising the liquid; (iii) preparing and sterilizing a dry xerogel or film carrier; (iv) applying microdroplets of the liquid according to step (ii) to at least one surface area of a dry xerogel or film carrier obtained from step (iii); (v) optionally repeating step (iv) at least one time, and; (vi) optionally repeating steps (i) to (v) with a liquid containing another active ingredient at least one time; (vii) vacuum-drying or freeze-drying the system obtained by above steps.

4. (withdrawn) Method according to claim 1, characterized in that the dry xerogel carrier is formed from a hydrogel by freeze-drying processes.

5. (withdrawn) Method according claim 1, characterized in that the dry film carrier is formed from a hydrogel by evaporative-drying processes, preferably air-drying, vacuum-drying or convective-drying.

6. (withdrawn) Method according to claim 1, characterized in that the dry xerogel or film carrier contains one or more swellable, dissolvable or erodable polymers.

7. (withdrawn) Method according to claim 1, characterized in that the gel-forming material of the dry xerogel or film carrier is selected from polysaccharides, like alginates, pectins, carrageenans or xanthan, starch and starch derivatives, gums like tragacanth or xanthan gum, collagen, gelatin, galactomannan and galactomannan derivatives, chitosan and chitosan derivatives, glycoproteins, proteoglycans, glucosaminoglycans, polyvinyl alcohol, polyvinylpyrrolidone, vinylpyrrolidone/vinyl acetate copolymers, high molecular weight polyethylene glycols and/or high molecular weight polypropylene glycols, polyoxyethylene/polyoxypropylene copolymers, polyvinyl

alcohol, polyacrylates and/or polymethacrylates, tpolylactides, polyglycolides and polyaminoacids and/or cellulose derivatives.

8. (withdrawn) Method according to claim 1, characterized in that the gel-forming material of the dry xerogel or film carrier is selected from cellulose derivatives, preferably methylcellulose, hydroxypropylcellulose, hydroxyethylcellulose, hydroxypropylmethylcellulose, sodium carboxymethylcellulose, ethylcellulose, cellulose acetate phthalate, hydroxypropylmethylcellulose phthalate, cellulose acetate succinate or ethylcellulose succinate or mixtures thereof.

9. (withdrawn) Method according to claim 1, characterized in that the carrier contains one or more additional excipients like sugars, sugar alcohols, surfactants, amino acids, antioxidants, polyethylene glycols.

10. (withdrawn) Method according to claims 1, characterized in that the carrier has at least two surfaces separated by edges.

11. (withdrawn) Method according to claim 1, characterized in that the carrier has approximately the form of a cylinder, a sheet, a cube or a cuboid.

12. (withdrawn) Method according to claim 1, characterized in that the microdroplets are applied to one or more surfaces, preferably one or two surfaces.

13. (withdrawn) Method according to claim 1, characterized in that the microdroplets are applied in a way that the carrier essentially does not change its shape.

14. (withdrawn) Method according to claim 1, characterized in that the microdroplets have a volume between about 0.05 nl and 10 [mu]l, more preferably between about 0.5 nl and 200 nl, most preferably between about 10 nl and 100 nl.

15. (withdrawn) Method according to any of claims to claim 1, characterized in that the microdroplets in step (iv) of claims 1 to 2 are placed separately or with contact to each other or on top of each other, preferably separately.

16. (withdrawn) Method according to claim 1, characterized in that the microdroplets are applied in a way that defined spots containing at least one active ingredient are obtained.

17. (withdrawn) Method according to claim 1, characterized in that the microdroplets of step (vi), containing another active ingredient are applied separately or with contact to or on top of the microdroplets of the first round of step (iv), preferably separately from microdroplets of the first round of step (iv) of any of claims 1 to 3.

18. (withdrawn) Method according to claims 1, characterized in that the microdroplets of step (vi), containing another active ingredient are applied to a different surface than the microdroplets applied in the first round of step (iv) any of claims 1 to 3.

19. (withdrawn) Method according to claim 1, characterized in that the microdroplets are applied in the middle area of a carrier surface, leaving an active ingredient-free edging around said surface area.

20. (withdrawn) Method according to claim 1, characterized in that the liquid of step (i) in claims 1 to 3 contains one or more excipients selected from sugars, sugar alcohols, surfactants, amino acids, buffers, lyoprotectants or antioxidants.

21. (withdrawn) Method according to claim 1, characterized in that at least one active ingredient is a protein, peptide, RNA, DNA or another substance potentially unstable in a formulation.

22. (withdrawn) Method according to claims 1, characterized in that at least one active ingredient is a substance, that promotes wound healing, preferably a wound healing factor, enzyme or proteinase inhibitor.

23. (previously presented) Delivery system for medical and/or cosmetic use comprising a carrier and at least one active ingredient, wherein said delivery system is vacuum-dried or freeze-dried, wherein said carrier is a dry xerogel, wherein the dry xerogel has a locally defined distribution of active agent resulting from the active ingredient ~~is~~being applied in dried microdroplets on at least one surface area of the carrier.

24. (withdrawn) Method of rehydrating a delivery system according to claim 23 characterized in that the composition is brought into contact with an aqueous solution or water outside the patient to be treated.

25. (previously presented) Rehydrated delivery system comprising
- the delivery system according to claim 23; and
- an aqueous solution or water.

26. (withdrawn) Rehydrated delivery system according to claim 25, wherein a fast release of at least one active ingredient is observed.

27. (original) Rehydrated delivery system according to claim 25, wherein a slow, controlled release of the active ingredient or ingredients is observed.

28. (currently amended) Composition for cosmetic or medical application on skin or on skin wounds, comprising **[[a]]** the delivery system according to claim 23 or **[[a]]** the rehydrated delivery system according to claim 25, and an inert support, ~~preferably~~ selected from an adhesive strip, adhesive wrap, bandage, gauze bandage, and compress system.

29. (withdrawn) Use of a delivery system according to claim 23 or a rehydrated delivery system according to claim 24 for cosmetic treatment on a subject comprising application of the delivery system on the skin of the subject.

30. (withdrawn) Use of a delivery system according to claim 23 or a rehydrated delivery system according to claim 24 as medicament to a subject comprising application of the delivery system on the skin of the subject.

31. (withdrawn) Use of a delivery system according to claim 23 for the manufacture of a medicament for treating wounds, skin diseases, ocular diseases and/or diseases of a mucosa comprising combining the delivery system with a carrier.

32. (withdrawn) Method according to claim 1 characterized in that the microdroplets are applied on one or more surfaces or surface areas of the carrier by means of printing or spotting, preferably by piezoelectric printers, more preferably by printers, which use a syringe pump and a high-speed micro-solenoid valve.

33. (withdrawn) Method according to claim 1 characterized in that the carrier, on which the microdroplets are applied, is heated preferably to not more than 40[deg.] C., more preferably to not more than 30[deg.] C. after step (iv) any of claims 1 to 3.

34. (withdrawn) Method according to claim 1 characterized in that the system is dried in vacuum after step (iv) of any of claims 1 to 3 to lower the residual moisture preferably below 5%, more preferably below 2%, especially preferably below 1%.

35. (withdrawn) Method according to claim 1 characterized in that a sterile liquid according to step (ii) of any of claims 1 to 3 containing at least one active ingredient is applied on a sterile carrier according to step (iii) of any of claims 1 to 3 under aseptic conditions, whereby a sterile delivery system is produced.

36. (withdrawn) Method according to claim 1 characterized in that the sterile liquid according to step (ii) of any of claims 1 to 3 is produced by sterile filtration under aseptic conditions.

37. (withdrawn) Method according to claim 1 characterized in that the sterile carrier according to step (iii) of claim 3 is obtained by sterilization of the hydrogel by hot vapour or radiation and drying.

38. (currently amended) Delivery system for medical and/or cosmetic use comprising a dry xerogel or film carrier and a pattern of dried microdroplets, ~~containing~~ comprising one or more active ingredients, wherein said delivery system is vacuum-dried or freeze-dried,.

39. (Original) Delivery system according to claim 38, wherein the pattern is regular.

40. (previously presented) The delivery system according to claim 23, wherein said delivery system is sterile.

41. (currently amended) The delivery system according to claim 23, wherein said delivery system ~~containing~~ further comprises another active ingredient **[[**is**]]** applied in dried microdroplets on at least one surface area of the carrier.

42. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the dry xerogel ~~contains~~ comprises one or more swellable, dissolvable or erodable polymers.

43. (currently amended) The delivery system according to claim 23, ~~characterized in that~~ wherein the dry xerogel ~~contains~~ comprises a gel-forming material, wherein said gel-forming material is selected from one or more of polysaccharides, gums, collagen, gelatin, galactomannan, galactomannan derivatives, chitosan, chitosan derivatives, glycoproteins, proteoglycans, glucosaminoglycans, polyvinyl alcohol, polyvinylpyrrolidone, vinylpyrrolidone/vinyl acetate copolymers, high molecular weight polyethylene glycols, high molecular weight polypropylene glycols, polyoxyethylene /

polyoxypropylene copolymers, polyvinyl alcohol, polyacrylates, polymethacrylates, polylactides, polyglycolides, polyaminoacids, and cellulose derivatives.

44. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the dry xerogel ~~contains~~ comprises a gel-forming material, wherein said gel-forming material is selected from one or more cellulose derivatives, or mixtures thereof.

45. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the carrier ~~contains~~ comprises one or more additional excipients selected from sugars, sugar alcohols, surfactants, amino acids, antioxidants, and polyethylene glycols.

46. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the carrier has at least two surfaces separated by edges.

47. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the carrier ~~has approximately~~ is in the form of a cylinder, a sheet, a cube or a cuboid.

48. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the microdroplets are applied on one or more surfaces.

49. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the microdroplets are placed separately or with contact to each other or on top of each other.

50. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the microdroplets are applied in defined spots ~~containing~~ and comprise at least one active ingredient.

51. (currently amended) The delivery system according to claim 41, ~~characterized in that~~wherein the microdroplets ~~containing~~ comprising another active ingredient are applied separately or with contact to or on top of the microdroplets ~~containing~~ comprising the first active ingredient.

52. (currently amended) The delivery system according to claim 41, ~~characterized in that~~wherein the microdroplets ~~containing~~ comprising another active ingredient are applied to a different surface than the microdroplets ~~containing~~ comprising the first active ingredient.

53. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the microdroplets are applied in the middle area of a carrier surface, leaving an active ingredient-free edging around said surface area.

54. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein the microdroplets ~~contain~~ comprise one or more excipients selected from sugars, sugar alcohols, surfactants, amino acids, buffers, lyoprotectants ~~or~~ and antioxidants.

55. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein at least one active ingredient is a protein, peptide, RNA, DNA or another substance potentially unstable in a formulation.

56. (currently amended) The delivery system according to claim 23, ~~characterized in that~~wherein at least one active ingredient is a substance, that promotes wound healing, preferably a wound healing factor, enzyme or proteinase inhibitor.

57. (previously presented) The delivery system according to claim 44, wherein the one or more cellulose derivatives is selected from methylcellulose, hydroxypropylcellulose, hydroxyethylcellulose, hydroxypropylmethylcellulose, sodium carboxymethylcellulose, ethylcellulose, cellulose acetate phthalate,

hydroxypropylmethylcellulose phthalate, cellulose acetate succinate and ethylcellulose succinate.

58. (currently amended) The delivery system according to claim 48, ~~characterized in that~~wherein the microdroplets are applied on one or two surfaces.

59. (currently amended) The delivery system according to claim 49, ~~characterized in that~~wherein the microdroplets are placed separately.

60. (currently amended) The delivery system according to claim 51, ~~characterized in that~~wherein the microdroplets containing another active ingredient are applied separately.